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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/836,976	04/18/2001	David W. Conrad	00RE098 9060		
7590 11/17/2004			EXAMINER		
Alexander M. Gerasimow			SICONOLFI, ROBERT		
Rockwell Autor 1201 South Sec	nation (Allen-Bradley Cond Street	ART UNIT	PAPER NUMBER		
Milwaukee, WI 53204			3683		
			DATE MAILED: 11/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary The MAILING DATE of this communication ap								
		09/836,976		CONRAD ET AL.				
		Examiner		Art Unit				
		Robert A. Si		3683	Idress ::			
Period fo		appears on the c		orrespondence de	247 000			
THE - Exter after - If the - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per re to reply within the set or extended period for reply will, by stately received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event a reply within the statuto briod will apply and will e tatute, cause the applica	, however, may a reply be tim ry minimum of thirty (30) day expire SIX (6) MONTHS from tition to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).	ly. communication.			
Status								
1)⊠	Responsive to communication(s) filed on 00	6 July 2004.						
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3)								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-27 is/are pending in the applicat 4a) Of the above claim(s) is/are without Claim(s) is/are allowed. Claim(s) 1-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction an	drawn from cons						
Applicati	on Papers							
9)[The specification is objected to by the Exam	niner.		,				
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
ŕ		o Examinor. Non	, the attached Office		.0 102.			
Priority u	ınder 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur See the attached detailed Office action for a	nents have been nents have been priority documen reau (PCT Rule	received. received in Applicati ts have been receive 17.2(a)).	ion No ed in this National	l Stage			
Attachmen	· t(s)							
1) Notic	e of References Cited (PTO-892)) Interview Summary					
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB r No(s)/Mail Date	3/08) 5	Paper No(s)/Mail Dail Dail Notice of Informal F		O-152)			

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DETAILED ACTION

1. Amendment filed on 7/6/04 has been received.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/6/04 has been entered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marshall et al (U. S. Patent no. 5,685,398) in view of McCarthy (U. S. Patent no. 4,181,201) and Hodgson (U. S. Patent no. 2,700,439).

 Marshall discloses: motor 34, field cup 82, armature plate 42, stationary plate 64, friction disk 66, compression spring 50,60, lever assembly 310 (lever 312,314) with first and second pivot points 316,318

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Marshall does not disclose a cam means to actuate the lever device. McCarthy teaches a cam means in combination with a lever means to disengage a motor brake (see figures 1-3 handle 92, cam 88, lever 24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a cam means as taught by McCarthy in the brake of Marshall et al in order to provide a good mechanical advantage in a compact space. The handle of Marshall has a mechanical advantage due to its length. The longer it is the more advantage it has. The use of a cam would eliminate the need for a large handle sticking straight up.

Marshall, as modified above, does not teach having the cam assembly pushing the lever and the cam away from a fixed element. Hodgson teaches having a cam assembly pushing against a fixed element in order to release the brake (see cam 57a, handle 57, fixed element 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the cam pushing the lever and the cam away from a fixed element as taught by Hodgson in the device of Marshall, as modified, to produce a more durable product. The cam has a point contact which means that the stress is concentrated in the surface it is pushing against. It is easier to design the housing/field cup to withstand such a stress concentration. It also allows the force against the lever to be spread out along the entire supporting surface of the cam. Such a reversal of parts is also supported by In re Gazda, 219 F.2d 449, 104 USPQ 400 (CCPA 1955).

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Regarding claims 4,5,14 and 15, the device of Marshall does not disclose the tilting of the lever in the range of 1-10 degrees. The specific angle used to achieve separation of the armature plate and the friction disk is a design choice and therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made. Regarding claims 9,10,19,20, the cam of McCarthy does not specifically disclose the side angle. The specific angle used is a design choice and therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made. To support the fact that it is merely a design choice the examiner notes that the applicant admits that any angle or no angle at all may be used in the specification (page 11 lines 25-27).

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Response to Arguments

5. Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Siconolfi whose telephone number is 703-305-0580. The examiner can normally be reached on M-F 10 am-3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on (703) 308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert A. Siconolfi

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Examiner

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